Management of Material Department of Organizations on the Basis of Automation Technologies

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Annotation. In the current process of globalization, the development of information technology and artificial intelligence is leading to the rapid development of socio-economic processes. In this work, the mechanisms of automation of the process of management and monitoring of the department of material resources in organizations are presented. It provides an analysis of the effectiveness of automating the process of managing and monitoring the inventory department in organizations.

Keywords. material management, Automated information systems, management system, automation of monitoring.

In the current process of globalization, the development of information technology requires automated management of socio-economic systems. Process management through automated information systems illuminates a wide range of possibilities. Improving the automation of management processes in higher education using electronic computers is one of the main tasks today. The automation of educational management processes through the use of information systems, away from excessive paperwork, has also contributed to the development of education and science. It is possible to analyze the process of increasing the intellectual potential of students through the use of artificial intelligence mechanisms through information systems in education management. In the system of higher education, the following departments serve to increase the efficiency of management process automation.

Brief description of the system of management and monitoring of material assets in organizations. The study looked at the database and management system of the inventory management and monitoring system in organizations. The system is available to all faculties and departments of the Department of Materials of the University on the basis of a local area network. The system provides fast online delivery of information to each faculty and department.

Purpose of the system: Automation of the process of management and monitoring of the material department in the organization, delivery and storage of data through the network at any time to the officials of the organization.

Tasks of the system: The system consists of two parts: to store information about income and expenditure cases in the material department of the organization and to process them and deliver them to the officials at any time. There are options to use the system as an administrator and guest. When using the system as an administrator, enter the organization's material data, edit it, create the necessary reports on the basis of requests, delete data on existing items in the voluntary department, faculty and organization, automatically add new material to the system, obsolete it will be possible to log out and provide logins and passwords to use the system. The structure of the office property management system is shown in Figure 1 below.
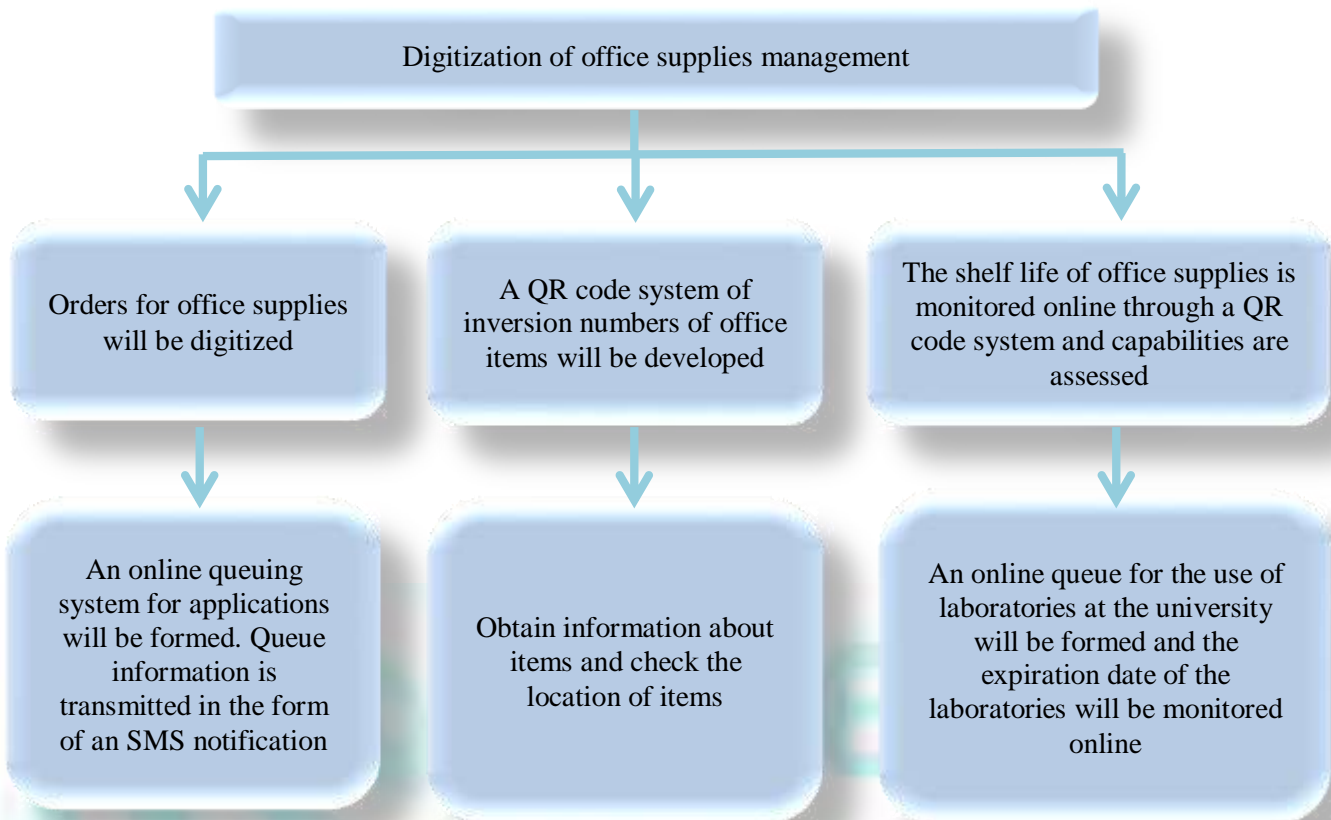
Figure 1. Structure of the inventory management system.

In order to use the system as a guest, guest users will have the opportunity to have information about the material in the organization at any time.

1. There are the following functions to work as a system administrator:
   ➢ verification of username and password for system use;
   ➢ entering the organization's inventory information;
   ➢ editing the organization's inventory;
   ➢ preparation of necessary reports on the basis of inquiries;
   ➢ deletion of data on existing items in the voluntary department, faculty and organization in the regions;
   ➢ automatic introduction of new materials;
   ➢ deleting outdated data;
   ➢ registration of system users.
2. The system has the following functions to work as a guest:
   ➢ verification of username and password for system use;
   ➢ knowledge of material assets in organizations at any time.

The creation and implementation of a system of automation of the management and monitoring of the inventory department in the above-mentioned organizations will increase the quality and efficiency of work. The effectiveness of management processes is largely due to the avoidance of red tape and the timely completion of tasks. The above-mentioned automated monitoring systems are the main tool to avoid red tape and ensure timely execution of tasks.

The creation of methods and technologies for the automation of management processes creates opportunities not only for organizations but also for the automation of management processes in other areas.

Conclusion

The development of methods and technologies to automate the process of management and monitoring of the inventory department in organizations will not only increase the efficiency of organizations, but also lead to the development of mechanisms to automate management processes. The study proposed methods and tasks to automate the process of managing and monitoring the inventory department in organizations.

References

Augustin, S., & Andreae, H. (Eds.). (1998). Cause-Effect-Interrelations in Forest Condition – State of Knowledge. Study elaborated for the UN/ECE ICP Forests under the auspices of the Convention on Long-Range Transboundary Air Pollution. Hamburg: BFH.

Akhatov A., Mardanov D., Nazarov F. Modeling of the database of the rating and labor relations monitoring system. Problems of Informatics and Energy, TUIT, Tashkent, No. 4 (5). 2020.

Baimukhamedov M. F. Principles of building an information system of university management. Materials of the republican conference "Innovative methods and means of teaching in the field of university education". Kostanay, 2004.

Huang J, Nicol DM, Bobba R, Huh JH. A framework integrating attribute-based policies into role-based access control. In: Proceedings of the 17th ACM symposium on access control models and technologies; 2012. p. 187–96.

Сидорова Е.Н. Автоматизированные системы управления в эксплуатационной работе: Учебник для техникумов и колледжей ж.-д. транспорта. — М.: Маршрут, 2005. — 560 с.

Тутубалин П. И., Кирпичников А. П. Оценка криптографической стойкости алгоритмов асимметричного шифрования. Вестник технологического университета. Т.20, №10, с. 94-99, 2017.